

What is claimed is:

1 1. A method of controlling PBX-like functionality at a mobile telecommunication
2 location not directly connected to a PBX switch, the method comprising the steps of:
3 a) providing voice and data communication interconnections to voice and data
4 networks at the mobile location;
5 b) providing a remote office platform coupled between the mobile location and
6 the PBX switch;
7 c) authenticating, at the remote office platform, access to the PBX switch from the
8 mobile location;
9 d) in response to PBX-like commands received at the remote office platform from
10 said mobile location, forwarding said commands to said PBX switch for call completion;
11 and
12 e) in response to calls received at the PBX switch for an individual at said mobile
13 location, sending said received calls to said remote office platform for forwarding to said
14 mobile location.

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1 2. The method as defined in claim 1 wherein in performing step d), if the PBX-
2 like commands comprise spoken commands, performing the steps of:
3 i) at the remote office platform, performing a speech recognition function
4 to translate the spoken command into a PBX-like command; and
5 ii) transmitting the PBX-like command through the switch controller to the
6 PBX switch.

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1 3. The method as defined in claim 1 wherein in performing step d), if the PBX-
2 like commands comprise DTMF tones, performing the steps of:
3 i) at the remote office platform, mapping a received sequence of DTMF
4 tones into an associated PBX-like command; and
5 ii) transmitting the PBX-like command through the switch controller to the
6 PBX switch

1 4. The method as defined in claim 1 wherein in performing step d), the PBX-like
2 command is updating the mobility number for use in communication with the individual.

1 5. The method as defined in claim 4 wherein the mobility number is updated by
2 an individual speaking a command, performing a speech recognition function to translate
3 the spoken command into a mobility number, and updating the remote office platform
4 with the updated mobility number.

1 6. The method as defined in claim 4 wherein the mobility number is updated by
2 an individual entering DTMF tones into a mobility device, translating the DTMF tones
3 into an updated mobility number and updating the remote office platform with the
4 updated mobility number.

1 7. The method as defined in claim 1 wherein the mobile device comprises a
2 computer-based device capable of receiving information from a data network and
3 including a display area, the method further comprising step of:

4 f) enabling a soft phone graphical user interface at the computer-based
5 mobile device.

1 8. The method as defined in claim 1 wherein in performing step c) the remote
2 office platform compares authentication information input by the mobile device user to
3 predetermined authentication information stored in a database at the remote office
4 platform.

1 9. The method as defined in claim 7 wherein in performing step f), the remote
2 office platform transmits the soft phone graphical user interface across the data network
3 to the mobile location.

4 10. The method as defined in claim 7 wherein in performing step f), the remote
5 office platform activates a soft phone graphical user interface resident in software within
6 the mobile device.

1 **11.** The method as defined in claim 7 wherein the method further comprises the
2 step of configuring the soft phone graphical user interface to include the capability of
3 updating the mobility number so as to allow the individual to change the mobile number
4 used for communication with the remote office platform.

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6 **12.** The method as defined in claim 1 wherein the data and voice communications
7 with the mobile device is initiated by the mobile device.

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9 **13.** The method as defined in claim 1 wherein the data and voice communications
10 with the mobile device is initiated by the remote office platform.

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12 **14.** A remote office system for providing PBX-like functionality at a mobile
13 location not directly connected to a PBX switch, the remote office system comprising
14 a mobile location including voice and data communication network
15 interconnections;

16 a remote office platform coupled between the PBX switch and the mobile data
17 interconnection for providing PBX-like call feature command capabilities at the mobile
18 location; and

19 a mobility processor, located at the remote office platform, for activating a PBX-
20 like session with a user-identified mobile number when the user ends a session at the
21 remote office location.

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23 **15.** A remote office system as defined in claim 14 wherein the remote office
24 voice and data interconnections are provided over a data network, the voice connection
25 comprising an IP telephony connection.

26
27 **16.** A remote office system as defined in claim 14 wherein the mobile processor
28 is implemented as a Java script applet.

1 **17.** A remote office system as defined in claim 14 wherein the remote office
2 platform comprises a speech recognition module for translating spoken commands from
3 the mobile device into PBX-like commands for forwarding to the PBX switch.

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1 **18.** A remote office system as defined in claim 17 wherein the speech recognition
2 module communicates with the mobile device and the remote office platform via a
3 conference call to implement call control commands.

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1 **19.** A remote office system as defined in claim 17 wherein the speech recognition
2 module communicates with the mobile device in a separate communication to receive
3 update commands for the mobility processor.

1 **20.** A remote office system as defined in claim 14 wherein the remote office
2 platform comprises a command database for translating received DTMF signals from a
3 mobile device into associated PBX-like commands for forwarding to the PBX switch.

1 **21.** A remote office system as defined in claim 14 wherein the remote office
2 platform comprises

3 a speech recognition module for translating spoken commands from the mobile
4 device into PBX-like commands for forwarding to the PBX switch; and

5 a command database for translating received DTMF signals from said mobile
6 device into associated PBX-like commands for forwarding to the PBX switch.